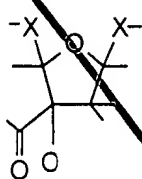
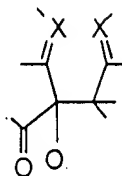


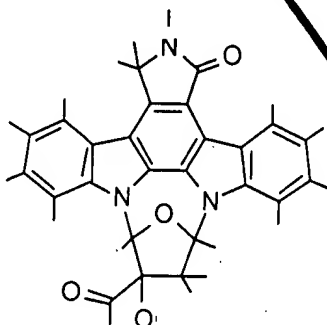
with an acetal having the ring structure



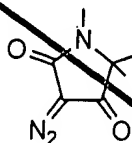
or



wherein X is S or O, under conditions that promote acetal exchange or formation to produce a glycosylated product having the ring structure

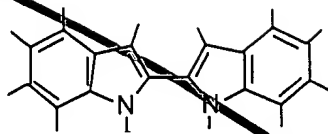


13. A process according to claim 1 wherein the indolocarbazole is prepared by reacting a diazo compound having the ring structure



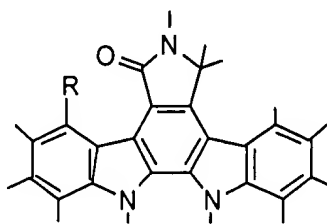
with a biindole having the ring structure

E' cont D<sup>2</sup>

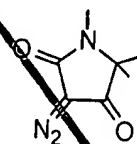


17. A process for the preparation of furanosylated indolocarbazoles by reacting an indolocarbazole having the ring structure

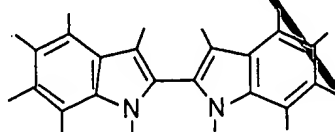
E' cont



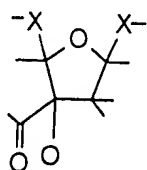
by reacting a diazo compound having the ring structure



with a biindole having the ring structure



in the presence of a transition metal catalyst in a solvent capable of solvating the reactants, and then reacting the indolocarbazole with an acetal having the ring structure



or

